

# URBANISM NEXT CENTER



## SUMMARY OF TOOLS AND LEVERS FOR SHAPING AV OUTCOMES

Summary adapted from 'A Framework for Shaping the Deployment of Autonomous Vehicles and Advancing Equity Outcomes' (January 2021) by the Urbanism Next Center with Cityfi. Project funded by the Knight Foundation.

### ALLOWING, SHAPING, ASSISTING, EDUCATION AND AND PROVIDING AV SERVICES COORDINATION

#### PUBLIC EDUCATION AND OUTREACH

- EMPOWER COMMUNITIES WITH KNOWLEDGE ABOUT OPTIONS
- CONDUCT PUBLIC AV PROJECT AND MOBILITY NEEDS OUTREACH

#### STAKEHOLDER COORDINATION

- PROVIDE POLITICAL ASSISTANCE
- DEVELOP TRUST BETWEEN PARTNERS
- CREATE AND COORDINATE AV WORKING GROUPS
- COORDINATE WITH BUSINESSES
- ASSIST IN CROSS AGENCY COORDINATION

#### ALLOW AV PILOTS OR DEPLOYMENT

- MODIFY LAWS TO ALLOW VEHICLES IN THE RIGHT-OF-WAY (ROW)
- CLARIFY LIABILITY AND RESPONSIBILITIES

#### SHAPE THE MARKET

- LIMIT THE NUMBER OF OPERATORS
- LIMIT THE NUMBER OF VEHICLES
- REDUCE BARRIERS TO ENTRY
- ENSURE COMPLIANCE WITH EXISTING REGULATIONS AND AGREEMENTS

#### OPERATIONAL LIMITS, REQUIREMENTS, AND TOOLS

- REQUIRE OPERATING OR BUSINESS PERMITS  
(OR OTHER REGULATION THAT ALLOWS FOR OPERATION)
- REQUIRE VEHICLE OCCUPANCY MINIMUMS AND VMT MAXIMUMS
- CHARGE FEES OR TAXES

## ALLOWING, SHAPING, ASSISTING, AND PROVIDING AV SERVICES (CONT.)

### OPERATIONAL LIMITS, REQUIREMENTS, AND TOOLS (CONT.)

#### REQUIRE EQUITABLE ACCESS PROGRAMS. THESE PROGRAMS COULD:

- Require communication/offers in multiple languages
- Create a service coverage area and wait time minimums
- Require vehicle accessibility
- Require multiple forms of ride reservation and payment (not only smart phone based)
- Require low-income fares
- Require local hiring and fair labor practices

#### REQUIRE OR INCENTIVIZE ACTIVITIES/VEHICLES THAT REDUCE GHG EMISSIONS

#### ENSURE SAFETY BETWEEN PASSENGERS, AS WELL AS VEHICLES, PEDESTRIANS, AND BICYCLES

### PROCESS ASSISTANCE

#### FACILITATE PROCUREMENT

#### ALLOCATE STAFF TIME AND RESOURCES TO AV PILOTS AND DEPLOYMENT

#### ALLOW VARIANCES TO FACILITATE AV PILOTS AND DEPLOYMENT

### PURCHASING OR SUBSIDIZING AV SERVICES

#### PROVIDE DIRECT FINANCIAL ASSISTANCE

#### DIRECTLY PURCHASE AV SERVICES

### TECHNOLOGY AND DATA INVESTMENTS

#### SET STANDARDS FOR DATA AND PLATFORMS

#### REQUIRE DATA SHARING AND REPORTING

#### CREATE TECHNOLOGY RESOURCES

#### SHARE INFORMATION (SUCH AS CONSTRUCTION, DELAYS, OR USE PERMITS) REGARDING CHANGES IN THE ROW

#### DEVELOP AND/OR SUPPORT MAAS

#### PROVIDE A FRAMEWORK AND STANDARDS FOR INTEGRATED PAYMENT AND BOOKING

### PHYSICAL INFRASTRUCTURE INVESTMENTS AND MANAGEMENT

#### LIMIT OR PRIORITIZE AV ACCESS TO INFRASTRUCTURE

#### MANAGE TRAVEL-LANE ACCESS FOR AVS

#### DESIGNATE AND MANAGE CURBSIDE ACCESS

#### INVEST IN TECH-READY TRANSPORTATION INFRASTRUCTURE

#### INVEST IN INFRASTRUCTURE IMPROVEMENTS FOR CONGESTION MANAGEMENT AND/OR AV DEPLOYMENT

## INVESTMENTS AND INFRASTRUCTURE